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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	MAY 01	New CAS web site launched
NEWS	3	MAY 08	CA/CAPLUS Indian patent publication number format defined
NEWS	4	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	7	MAY 21	CA/CAPLUS enhanced with additional kind codes for German patents
NEWS	8	MAY 22	CA/CAPLUS enhanced with IPC reclassification in Japanese patents
NEWS	9	JUN 27	CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers
NEWS	10	JUN 29	STN Viewer now available
NEWS	11	JUN 29	STN Express, Version 8.2, now available
NEWS	12	JUL 02	LEMBASE coverage updated
NEWS	13	JUL 02	LMEDLINE coverage updated
NEWS	14	JUL 02	SCISEARCH enhanced with complete author names
NEWS	15	JUL 02	CHEMCATS accession numbers revised
NEWS	16	JUL 02	CA/CAPLUS enhanced with utility model patents from China
NEWS	17	JUL 16	CAPLUS enhanced with French and German abstracts
NEWS	18	JUL 18	CA/CAPLUS patent coverage enhanced
NEWS	19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	20	JUL 30	USGENE now available on STN
NEWS	21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	22	AUG 06	BEILSTEIN updated with new compounds
NEWS	23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	24	AUG 13	CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS	25	AUG 20	CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS EXPRESS	29	JUNE 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS LOGIN			Welcome Banner and News Items
NEWS IPC8			For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

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FULL ESTIMATED COST	0.21	0.21

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=> e kiessling laur?/au

E1	76	KIESSLING L S/AU
E2	2	KIESSLING LAESSIG A/AU
E3	0	--> KIESSLING LAUR?/AU
E4	5	KIESSLING LAURA/AU
E5	384	KIESSLING LAURA L/AU
E6	1	KIESSLING LAURA LEE/AU
E7	2	KIESSLING LEIF/AU
E8	1	KIESSLING LORENZ/AU
E9	4	KIESSLING LOU ANN/AU
E10	1	KIESSLING LOUIS S/AU
E11	6	KIESSLING LOUISE/AU
E12	14	KIESSLING LOUISE S/AU

=> e4-e6

L1 390 ("KIESSLING LAURA"/AU OR "KIESSLING LAURA L"/AU OR "KIESSLING LAURA LEE"/AU)

=> atom (s) transfer (s) radical (s) polyme?

L2 7338 ATOM (S) TRANSFER (S) RADICAL (S) POLYME?

=> l1 and l2

L3 4 L1 AND L2

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 4 DUP REM L3 (0 DUPLICATES REMOVED)

=> d ibib abs l4 1-4

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:200894 CAPLUS

DOCUMENT NUMBER: 143:168462

TITLE: Biologically active polymeric multivalent ligands

AUTHOR(S): Kiessling, Laura L.

CORPORATE SOURCE: Department of Chemistry and Biochemistry, University of Wisconsin-Madison, Madison, WI, 53706, USA

SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2005), 46(1), 122

CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer Chemistry

DOCUMENT TYPE: Journal; (computer optical disk)

LANGUAGE: English

AB Multivalent ligands, compds. that display multiple copies of a binding epitope, can serve as potent inhibitors or effectors of biol. processes. To generate biol. active polymers, the ring-opening metathesis polymerization (ROMP) and atom-transfer radical polymerization (ATRP) were employed. Polymers generated by ROMP are shown biol.

active as both inhibitors and effectors. For example, carbohydrate substituted polymers are potent inhibitors of protein, carbohydrate recognition events, including those involved in cell adhesion. In addition, polymers displaying binding epitopes for cell surface receptors can cluster these receptors and thereby promote specific cellular responses.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:1060761 CAPLUS

DOCUMENT NUMBER: 142:36914

TITLE: Multivalent ligands comprising signal recognition element and binding recognition element for regulating cellular responses and designing diagnostic and therapeutic effector molecules

INVENTOR(S): Kiessling, Laura L.; Griffith, Byron R.; Gestwicki, Jason E.; Strong, Laura

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 76 pp., Cont.-in-part of U.S. Ser. No. 815,296.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004248801	A1	20041209	US 2004-806056	20040322
US 2003125262	A1	20030703	US 2001-815296	20010321
PRIORITY APPLN. INFO.:			US 2000-191014P	P 20000321
			US 2001-815296	A2 20010321
			US 2003-456778P	P 20030321

AB This invention provides multivalent ligands which carry or display at least one recognition element (RE), and preferably a plurality of recognition elements, for binding directly or indirectly to cells or other biol. particles or more generally by binding to any biol. mol. The multivalent ligands provided can most generally function for binding or targeting to any biol. particle or mol. and particularly to targeting of cells or cell types or viruses, for cell aggregation and generally for macromol. assembly of biol. macromols. The multivalent ligands of this invention are generally applicable for creating scaffolds (assemblies) of chemical or biol. species, including without limitation, antigens, epitopes, ligand binding groups, ligands for cell receptors (cell surface receptors, transmembrane receptors and cytoplasmic receptors), and various macromols. (nucleic acids, carbohydrates, saccharides, proteins, peptides, etc.). In these scaffolds, the number, spacing, relative positioning and relative orientation of recognition elements can be controlled. Multivalent ligands of this invention can carry or display at least one signal recognition element (SRE), and preferably a plurality of signal recognition elements, and modulate biol. responses in biol. systems. The SRE is selected from an amino acid, peptide, protein, derivatized peptide, epitope, monosaccharide, disaccharide, polysaccharide, nucleic acid, cell nutrient, antigen, small drug-like compound, hapten, antibody or fragment,

or cell surface receptor. Multivalent ligands of this invention can carry or display at least one binding recognition element (BRE), and preferably a plurality of binding recognition elements, optionally in combination with one or more SRE, and modulate biol. responses in biol. systems. The invention also relates to methods for aggregating biol. particles and macromols. and for modulating biol. response employing the multivalent ligands provided.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:61189 CAPLUS
DOCUMENT NUMBER: 140:267083
TITLE: A polymer scaffold for protein oligomerization
AUTHOR(S): Griffith, Byron R.; Allen, Benjamin L.; Rapraeger, Alan C.; Kiessling, Laura L.
CORPORATE SOURCE: Departments of Chemistry, Pathology and Laboratory Medicine, and Biochemistry, University of Wisconsin-Madison, Madison, WI, 53706, USA
SOURCE: Journal of the American Chemical Society (2004), 126(6), 1608-1609
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB We report the design and synthesis of well-defined polymers for the noncovalent oligomerization of proteins. The reported scaffolds, which were generated by atom-transfer radical polymerization (ATRP), take advantage of

the well-characterized interaction between a Ni²⁺ complex and an oligohistidine sequence (His tag). Thus, our polymers are designed to facilitate the oligomerization of any protein possessing a His tag. We demonstrate that they can oligomerize fibroblast growth factor-8b (FGF-8b) and promote FGF-8b-mediated cell proliferation in the absence of heparin.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:184276 CAPLUS
TITLE: Ni-chelating polymer scaffolds for protein oligomerization
AUTHOR(S): Griffith, Byron R.; Allen, Ben; Rapraeger, Alan C.; Kiessling, Laura L.
CORPORATE SOURCE: Department of Chemistry, University of Wisconsin-Madison, Madison, WI, 53706, USA
SOURCE: Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), MEDI-310. American Chemical Society: Washington, D. C.
CODEN: 69DSA4
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English

AB We have developed a general non-covalent scaffold for the oligomerization of any protein bearing a histidine (His) tag. We envision this scaffold could serve as a potentially powerful new biochem. tool with which to address questions regarding monovalent vs. multivalent protein presentation in biol. systems (e.g. growth factor-mediated cell signaling). Our scaffolds were synthesized by functionalizing a succinimide ester-substituted polymer generated by atom-transfer radical polymerization (ATRP) with a nucleophile containing a protected nitriloacetic acid (NTA) Ni²⁺-chelating functionality. Upon deprotection under standard hydrolytic conditions, we treated the polymer with Ni²⁺ and purified the resulting complex by dialysis. We subsequently tested the polymer for the ability to cluster proteins with His tags in solution. We found these agents oligomerize proteins; gel electrophoresis after treatment of the complexes with a covalent cross-linker gives rise to bands corresponding to higher mol. weight proteins. Given these results,

we have begun testing these polymers for the ability to cluster FGF and induce FGF-mediated cell proliferation in a heparan sulfate-deficient cell line. We have obtained preliminary results that suggest these polymers can, in fact, induce FGF-mediated cell proliferation in the absence of heparan sulfate. We anticipate that these reagents may serve as useful probes of the mechanism of heparan sulfate-stimulated growth factor signaling.

=> FIL STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
35.82	36.03

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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ENTRY	SESSION
0.36	36.39

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-3.12

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WEST Search History

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<input type="checkbox"/>	L8	6803438.pn. and 17	1
<input type="checkbox"/>	L7	(vivo or live or cell or life or biol\$ or drug or medicine or vitro) and 15	18
<input type="checkbox"/>	L6	(vivo or living or live or cell or life or biol\$ or drug or medicine or vitro) and 15	51
<input type="checkbox"/>	L5	((atom adj transfer adj radical adj polyme\$) or ATRP).clm. and 14	51
<input type="checkbox"/>	L4	((((atom adj transfer adj radical adj polyme\$) or ATRP) same (ligand or receptor or cluste\$ or scaffold)) and 13	192
<input type="checkbox"/>	L3	(atom adj transfer adj radical adj polyme\$) same (ligand or receptor or cluste\$ or scaffold)	192
<input type="checkbox"/>	L2	atom adj transfer adj radical adj polyme\$	1161
<input type="checkbox"/>	L1	((atom adj transfer adj radical adj polymerization) and (kiessling.inv.))	1

END OF SEARCH HISTORY